

INSTRUCTION SHEET

PLATINUM SERIES

KINERGETICS

KBA-75

**75 WATT PER CHANNEL
CLASS "A" AMPLIFIER**

**PRIOR TO PERFORMING CRITICAL
SONIC PERFORMANCE EVALUATION PLEASE
ALLOW UNIT TO BE CONNECTED TO AN ACTIVE
AC LINE FOR AT LEAST 24 HOURS.**

 **KINERGETICS
RESEARCH**



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OPERATING INSTRUCTIONS

KBA-75 PLATINUM

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CLASS-A AMPLIFIER

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GENERAL INFORMATION

The KBA-75 is a dual 75 Watt per channel class-A amplifier intended for serious music lovers. It will provide 150 Watts, per channel, of full class-A operation into a 4 Ohm load with a bandwidth of .5Hz - 300kHz. Both positive and negative D.C. supply voltages are fused and a line fuse is provided for the A.C. input voltage. These are the only protection devices! In the unlikely event that a fuse should blow, it is imperative that the fuse be replaced with the same type and amperage specified.

The power supply features a .9kVA dual coil toroidal transformer and a total of 40,000 uF of computer-grade filter capacitors. A total of 42 discrete transistors, 6 diodes and 2 bridge rectifiers are utilized. The patented Kinergetics Hysteresis Cancelling Network is employed to provide the ultimate in clean audio power.

II. UNPACKING

As soon as the amplifier shipment is received, please inspect for any damage incurred in transit. Since the unit was carefully inspected and tested at the factory, it left the factory unmarred. In the unlikely event that the contents are damaged, be sure to save the carton as evidence for the shipper's inspection. Even if the unit arrived in perfect condition - as most do - it is advantageous to save the packing materials. They will prove valuable in preventing damage should there ever be occasion to transport or ship the unit. Note the carton and internal pack; each is designed for protection in transit. Do not ship the unit without this factory pack! Should the original box and/or packing materials be lost replacements may be purchased from Kinergetics Research. Be sure to return the warranty form to the factory.

III. INSTALLATION

A. Placement

SUFFICIENT VENTILATION MUST BE PROVIDED FOR THE UNIT!!!!

This means that air must be allowed to circulate over the top and from the rear of the chassis to prevent overheating. This is a class-A amplifier and will produce a significant amount of heat, even at idle or with no signal present at the input. Installation in a closed rear cabinet is NOT acceptable and will cause severe damage to the unit. A large port at the rear of such a cabinet must be provided.

B. Normal Hi-Fi Installation

1. High quality speaker cable must connect the output dual binding post using terminal lugs, tinned ends or "banana" plugs.
2. Since the KBA-75 is a "basic amplifier", the main outputs of the control center or "preamplifier" must be connected via high quality shielded audio-cables to the RCA input jacks of the amplifier.
3. U/L requirements specify a 3-wire AC power connector, however the use of a 3-to-2 adapter, and reversing the plug, may result in a minor audible effect.

C. Connecting the Outputs

Input and output connectors are located at the rear of the unit. It is essential for safety to remove the power from the unit while making connections. It is important to use a high quality output cable and keep these cables as short as possible. The KBA-75 output impedance is approximately 67 milli ohms and non-inductive. It is therefore capable of driving most any load including reactive loads such as electrostatic speakers. Never parallel the outputs by directly tying them together or parallel them with any other amp's output. Such connection does not result in increased power output. Damage incurred by such operation is NOT covered by the warranty.

D. Connecting the Inputs

High quality shielded audio input cable should always be used. Ground loops and the resulting "hum" must be avoided. Do not allow the input cables to pass through large magnetic fields such as those created by power transformers. Do not connect the output ground to the input ground, as this will produce a ground loop and possible high frequency oscillation. Observe caution when connecting the input cables. Do not connect these cables while the amplifier is on and the speakers are connected. This will result in a transient voltage that may damage your speakers.

IV. OPERATION

To operate the KBA-75 turn on the Power Toggle Switch. The light will come on and air will flow out of the rear of the amplifier. After a short time the exiting air will become hot (this is normal).

CAUTION: ALLOW 60 SECONDS FOR THE POWER SUPPLY TO DRAIN OFF STORED POWER AFTER POWER IS TURNED OFF.

REMOTE

The KBA-75 Platinum Series is equipped with a wired remote control input jack. When used with the Kinergetics KPA-2 preamplifier this jack permits turning the KBA-75 front panel on and off with the switch on the KPA-2.

WARNING: DANGEROUS LIVE VOLTAGE IS PRESENT AT THIS JACK. DO NOT INSERT ANY CONNECTORS OTHER THAN THE INTENDED TO BE USED WITH THE KPA-2 PREAMP.

V. Design Philosophy

The KBA-75 is a true class-A amplifier in all respects. From its inception the intention was to create an amplifier with simplicity and integrity in design being the primary objectives. The basic circuit design is of conventional form, except for some added features and close attention to circuit parameters, as well as extensive research of power transistors to achieve a most musical sounding power amplifier.

All of these devices are 200 Watt NPN transistors of the same type. The advantages of this configuration [as opposed to the conventional complimentary push-pull NPN-PNP pair] include improved linearity. The electrical and thermal tracking are also largely improved.

VI. SPECIFICATIONS

Maximum Rrms Power	
8 ohm load	130 Watts/Ch
4 ohm load	230 Watts/Ch
T.H.D.	0.02%
Power Output, 8 ohm load:	75W/channel continuous
Power Output, 4 ohm load:	150 W/channel continuous
Power Output, 2 ohm load:	300 W/channel continuous
Power Supply:	40,000 μ F, 1 KVA Transformer
Input Impedance:	100 K ohm
Slew Rate:	65 V/microsecond
Voltage Gain:	20 (absolute)
Full Power Bandwidth:	1 Hz to 300 KHz
Small signal Bandwidth:	1 Hz to 1 MHz
Class of Output Operation:	A
Phase Inversion:	No
Overall Dimensions:	17 $\frac{1}{4}$ " W x 19" D x 5 $\frac{1}{2}$ " H
Weight:	50 lbs